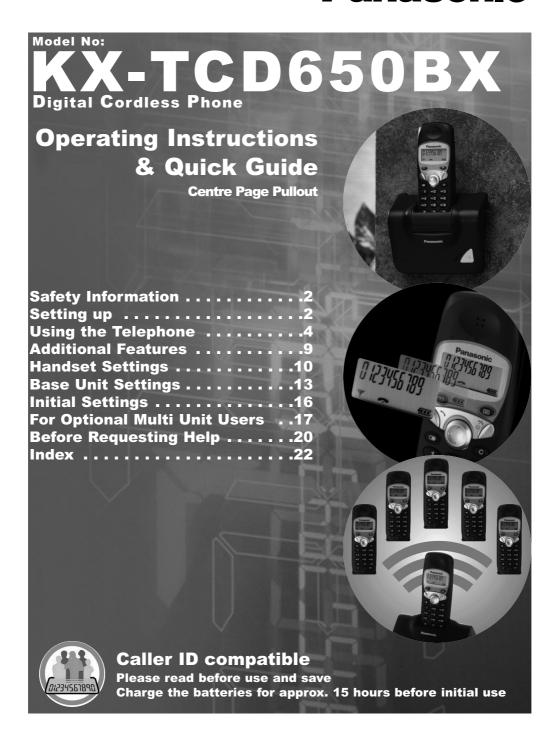
Panasonic



General Safety

- Only use the power supply included with the product.
- Do not connect the AC Adaptor to any AC outlet other than the standard AC230V.
- The apparatus is approved for use with PQLV19CE power supply.
- This apparatus is unable to make emergency telephone calls under the following conditions:
 - The portable handset batteries need recharging, or have failed.
 - During a mains power failure.
 - When the Key Lock is set to ON.
 - When the unit is in Direct Call mode.
- O Do not open the base unit or handset (other than to change the batteries).
- O This apparatus should not be used near emergency/intensive care medical equipment and should not be used by people with pacemakers.
- O Care should be taken that objects do not fall onto, and liquids are not spilled into the unit. Do not subject this unit to excessive smoke, dust, mechanical vibration or shock.

Environment

- O Do not use this unit near water.
- O This unit should be kept away from heat sources such as radiators, cookers, etc. It should also not be placed in rooms where the temperature is less than 5°C or greater than 40°C.
- The AC Adaptor is used as the main disconnect device, ensure that the AC outlet is located / installed near the unit and is accessible.

WARNING:

TO PREVENT THE RISK OF ELECTRICAL SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY OTHER TYPE OF MOISTURE.

Battery Caution

- O Use only specified batteries.
- Only use rechargeable batteries.
- Do not mix old and new batteries.
- Do not dispose of batteries in a fire, they may explode. Check local waste management codes for special disposal instructions.
- O Do not open or mutilate the batteries. Released electrolyte is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.
- O Exercise care in handling the batteries in order not to short the batteries with conductive materials such as rings, bracelets and keys.

 The batteries and/or conductor may overheat and cause burns.
- O Charge the batteries provided in accordance with the information given in this operating guide.

Setting Up

Accessories (Included)

AC Adaptor 1



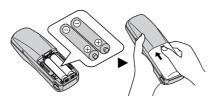
Telephone Line 1 Cord



- Batteries 2 (AA Size)
- O Battery Cover 1
- O Operating 1 Instructions

Additional accessories are available for purchase. Contact your Panasonic Service Centre for further details.

Insert the Batteries



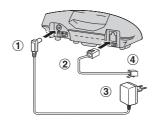
Please ensure the batteries are inserted as shown.

Connection

Plug in the AC adaptor and the telephone line cord in order 1, 2, 3.

WARNING:

DO NOT CONNECT THE TELE-PHONE LINE CORD TO THE PHONE SOCKET 4 UNTIL THE HANDSET IS FULLY CHARGED.



Fasten the AC adaptor cord to prevent it from being disconnected.



The AC Adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use).

Location

For maximum distance noise-free operation, place your base unit:

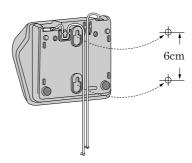
-Away from electrical appliances such as TV, radio, personal computer or another phone.

-In a convenient high and central loca-

Wall Mounting

This unit can be mounted on a wall.

- Insert screws into wall. The centres of the screw holes should be 6cm vertically apart.
- Connect the AC adaptor and the telephone line cord.
- Arrange the wires as shown, then mount the unit.



Notice

Some features described in these operating instructions/Quick Guide are dependent upon subscription to your Network provider (e.g Caller ID).

All features of this type will be marked throughout the manual with this icon.



Please note throughout this operating instructions/Quick Guide that the word "PRESS" is depicted by this symbol ⟨≫.

Battery Charging

(Before Initial Use)

- ! The batteries must be charged for approximately 15 hours before initial use.
- After the batteries have been inserted into the handset, place the handset in the powered up base unit.
- (The telephone line cord must not be connected to the telephone socket at this time. Please leave your standard telephone connected until battery charging is complete).
- The batteries are fully charged only when **u** is flashing.

(After Initial Use)

When the battery icon flashes (and, if programmed, battery low alarm sounds), the handset should be charged immediately because there is little energy left in the batteries.

Battery Life

- Battery life is dependent on use and conditions but in general when using fully charged Ni-MH batteries:
 Talk time: 20hrs approx.
 Standby time: 200hrs approx.
 When using Ni-Cd batteries (based on 800mA per hour)
 Talk time: 12hrs approx.
 Standby time: 100hrs approx.
 (Times indicated are for peak performance)
- after several full charges.

 The batteries cannot be overcharged unless they are repeatedly removed and replaced.

The batteries reach peak performance

- O If battery life is shortened then please check that battery and charge terminals are clean.
- O For maximum battery life it is recommended that the handset is not recharged until battery icon flashes

Replacing the batteries

- o If the Licon flashes after a few telephone calls even when the handset batteries have been fully charged, the batteries must be replaced.
 - ! Charge new batteries for approximately 15 hours before initial use.
- (The telephone line cord must not be connected to the telephone socket at this time).
- O If the batteries are removed, the battery icon is reset to (less than 30% capacity). In this case, even if fully charged batteries are fitted, the icon remains as until a full charge cycle is complete.
- On replacing the batteries, ensure that the correct battery type is selected (see 'Handset Settings').

Turning the Power ON/OFF

Turn Power ON

🄝 and hold 🦘 .

When button is released, display changes to the standby mode and a confirmation tone sounds.

Turn Power OFF

From the standby mode, and hold until a long tone sounds.

The display goes blank. If you put the

The display goes blank. If you put the handset in the base unit, the battery icon will display.

Answering Calls

When an external call is incoming, you can temporarily turn off the handset ringer.

During an incoming call, \Longrightarrow and hold $\boxed{\bullet}$. \bowtie is displayed and the handset ringing stops. (This function will not work when the handset is on the base unit or if an internal call is incoming.)

Making Calls



Dial the number.

After a few seconds, the call duration is displayed. The dialled number is stored in the redial memory.

When you are finished with the call, 🔊 🛪 .

- Alternatively, dial the number, then \(\) . This procedure allows you to edit / confirm the number before dialling.
- If you misdial, So C.
- If Ψ flashes and an alarm tone sounds when you press \uparrow , move closer to the base unit and try your call again.

Setting the Receiver Volume

During a phone call, \(\> \bullet \) to change the volume setting to LOW (0), MEDIUM (00) or HIGH (000).

Handset Locator / Paging

Using this feature you can locate a misplaced handset by paging.

- O on the base unit.
 All handsets ring for 1 minute.
- again or on (one of) the handset(s) to stop ringing.

Redialling

Redialling the Last Number Dialled



The last number dialled displays and is dialled.

Making a Call from the Redial List

The last 10 numbers dialled are stored.

(To exit the redial list, 🗫🛪).

S (3∞3°.

Caller ID Service

Caller ID is a service of your Network provider and will only operate if you have subscribed to this feature.

After subscribing to Caller ID, this phone will display the callers information.

If your unit is connected to a PBX or a telephone line that does not support this service you will not be able to use it. Caller ID does not display caller information while using the handset for an intercom call. However, the caller's information will be stored to the Caller ID List.

Making a Call from the Caller ID List

The last 50 caller's phone numbers are stored in the order the calls were received.

From the standby mode (). The newest number is displayed.

- If there are no numbers stored in the Caller ID list no IEEN is displayed.
- O 🎾 / 🔽 to select number.

 - Only the most recent call from the same phone number is stored.
 - Only 12 digits of a phone number are displayed. To display the remaining digits of longer phone numbers, (3)—3.

On selection 🔊 🖜

Making a Call from the Caller ID List (cont.)

After you have viewed a phone number, answered the call or called back the caller, " σ " is added to the caller's number.

After viewing all new caller ID numbers, the call counter is reset to zero. To exit the Caller ID list 🗫 🛪.

Caller ID List Menu / Redial List Menu

You can save numbers from the redial list/Caller ID list into speed dial, edit or clear from memory.

- From the standby mode (to access Redial list) or (A)

 (to access Caller ID list).
- ♠ / ▼ to select number from list.
-) **⟨**≫**▶**.

SRUE SPEEd is displayed.

○ S I / T to select a menu item then follow the instructions below.

SRUE SPEEd

(Save a Number in the List as a Speed Dial):

- **▷**.
- is displayed.
- 🗫 🗐.

E91F CULT UO

(Edit a Number in the List):

- **ৢ≫**▶.
 - Digits are added or deleted to the left of the flashing digit.

To add digits (> 0- 0. To clear digits (> 0. Either (> 1. to dial or to save the number, (> 0. SRUE SPEEd is displayed. (> 0. 0. 0. To save.

CLERT

(Clear a Number in the List):

- (>>• (>>• (YES). (YES). (>>• (>>• (YES). (YES). (>>• (>>• (YES). (YES). (>>• (YES). (YES). (YES). (YES). (YES). (YES). (YES). (YES). (YES).
 - **CLERIEd** is displayed, a confirmation tone sounds and the next number is displayed. If you clear the last number, **no IEEN** is displayed.

ALL CLEAT

(Clear all Numbers in the List):

- S>►
- S (YES).
- ⟨≫▶

A confirmation tone sounds and **CLERFEd**, then **NO IEEN** is displayed.

To exit the menu at any time,

Speed Dialling

You can store up to 20 telephone numbers in the handset.

Storing New Numbers

From the standby mode SE.

∁≫▶.

ightharpoonup and an index number 00 - 19 is displayed.

*Enter a phone number (max 24 digits).

▍░≫圖.

SRUEd is displayed. To enter another number repeat from *.

If speed dial memory is full $\Pi E \Pi \Pi \Gamma Y$ FULL is displayed.

Dialling Stored Numbers

(>>₩

○ 🏂 🛦 / 🔽 to select number.

>00 - 19 to select index number directly.

(D)

If you press ©, or no digits are entered for over 1 minute, speed dial is cancelled.

Saving Numbers to Speed Dial from Other Lists

Please reference "Caller ID List Menu/Redial List Menu".

Speed Dial List Menu

You can edit or clear a speed dial number from memory or assign a hot key to any speed dial number.

- From the standby mode 🗫 🕶.
- S () T to select number from list.

(>>**▶**.

Ed It is displayed.

♠ / ▼ to select a menu item then follow the instructions that follow:

Ed 15

(Edit the Speed Dial Number):

- O Solution I be to move the edit point. Digits are added or deleted to the left of the flashing digit.
- To add digits To clear digits -
- 🗫 🗎 to save.

CLEAC

(Clear a Speed Dial Number):

- 🗫 🖪.
 - S A / ▼ to select YE5 (YES).
- (>>►).

0

CLEAFEd is displayed, a confirmation tone sounds and the next number is displayed. If you clear the last number, **no IEEN** is displayed.

НОЕ НЕУ ГЕС

(Register a Speed Dial Number as a Hot Key

1 - wxy29):

(≫).

○ ♠ / ▼ to select a key from 1-9.

If a key has already been assigned as a hot key, it will flash in the display.

(₃>▶.

S ▲/▼ to select **YE5** (YES).

(₃>**▶**.

The speed dial number is displayed and a confirmation tone sounds.

To exit the menu at any time,

Dialling a Hot Key Number

You can assign the dialling buttons 1 - as hot keys. You can choose 9 phone numbers from the speed dial list (See "Register a Speed Dial Number as a Hot Key").

 \bigcirc \bigcirc and hold a key \bigcirc - \bigcirc . The number stored with that key is displayed.

♦ / ▼ to view other numbers stored.

○ 🗫 **to** dial.

Clearing Caller Information from a Hot Key

○ 🗫 and hold a key 🕦 - 🖦 The number stored with that key is displayed.

○ SE. CLEAT is displayed.

⟨≫▶.

>▲ / ▼ to select YES (YES).

○ \$\int_3\int_8\$.

Key Lock

You can lock the handset dialling buttons. Only incoming calls are accepted while the key lock is ON.

Turn Key Lock ON

- - ! When the key lock is ON, emergency calls cannot be made until key lock is cancelled.

Turn Key Lock OFF

- o and hold until a beep sounds.
 o '-O' disappears and key lock is cancelled
- O The key lock is also cancelled if the handset is turned off.

Recall Feature

- R is used to access special telephone services. Contact your Network provider for details.
- If your unit is connected to a PBX, pressing (R) allows you to access some features of your host PBX such as transferring an extension call.

Temporary Tone Dialling

- ! This function is for Rotary or Pulse service users.
- before entering access numbers which require tone dialling.
- The dialling mode is switched to tone. You can enter numbers for dialling which require tone dialling eg. electronic banking service.
- When you hang up, the mode will return to pulse.

Dialling Pause

- ! This function is for PBX line/long distance service users.
- A dialling pause is used when a pause in the dialling of the phone number is necessary using a PBX or accessing a long distance service. (see "Select Pause Timing").
- For example, when 9 (line access number) is dialled followed by a pause to access an outside line through a PBX:
- O (30 WXXZ9).
- Enter telephone number.
- O 🗫 🦜 .
- O Entering a pause prevents misdialling when you redial or dial a stored number
- O Pressing once creates one pause. To extend the pause requirement time, accordingly.

Handset Settings

You can change the handset settings using a handset near the base unit.

Before proceeding with any of the main menu items listed in this chapter, the following procedure must initially be carried out:

From the Standby mode, 🗫 🗈.

2 ♠ / ▼ to select SEŁŁ ING H5 (Setting Handset).

(₃>**.**

(see menus in shaded text boxes):

To exit the menu at any time,

or © to return to previous step during programming.

ŁINE ALAFN

(Alarm Settings):*

- o (≫**.**

SEL LINE

(Set Time of Alarm):*

- (¬>>►.
- its) 24 hour clock. Digits are entered over the flashing digit.

To clear (C).

- 🔊 🗐 to save.
- ☐ ♠A/▼ to select ONCE (Once), FEPERE dRILY (Repeat Daily) or OFF (Off).
- 🗫 🗈.

SEŁ ALAFN

(Set Alarm):

- 🗫 🖪.
- O SAIV to select ONCE (Once),
 FEPERE dR ILY (Repeat Daily) or
 OFF (Off).
- 🌄 🕩 🕞 .

To Stop Alarm

○ When the alarm sounds, ♠• or □.

Alarm stops and display returns to the standby mode. If \mathcal{GNLE} is selected, the setting is turned off.

When in talk or intercom mode the alarm will not sound until the call is ended.

* For this feature to work you must first set the Clock (see "Base Unit Settings").

r INGER OPE

(Ringer Settings):

- o **ॐ**₽.
 - (>>**△**/▼.

LIUCEL NOT

(Select the Handset Ringer Volume):

- o Salve to select Ringer Volume.

The choices are 6 levels or OFF.

→ .

EHŁ FINGEF

(Select Ringer Pattern for External Incoming call)**

To program see ** below.

INE L'INGEL

(Select Ringer Pattern for Internal call)**

To program see ** below.

PRG ING

(Select Ringer Pattern for Paging tone)**

To program see ** below.

ALAFN

(Select Ringer Pattern for Alarm tone):**

- ** There are 20 patterns available for each ringer option.
- (3>)
- 🗫 🔼 🔽 to select ringer pattern.

Before programming, please follow steps 1 to 4 of 'Handset Settings'.

ŁONE OPŁ

(Tone Settings):

○ (¬>> ►). ○ (¬>> ▲/▼).

hEY ŁONE

(Set Key Confirmation Tone ON/OFF)***

To program see *** below.

CRLL BRIFING

(Set Call Waiting Tone ON/OFF)***

To program see *** below. Call waiting tone sounds when an incoming external call is received during an intercom call.

range alarn

(Set Range Alarm ON/OFF)***

To program see *** below. Alarm will sound when you move out of range of a base unit.

PWFFELA TOR

(Set Battery Low Tone ON/OFF)***

*** Program as follows:

- (>>E).
- 🗫 🛦 / 🔻 to select ON/OFF.

d ISPLRY OPE

(Display Options):

- 🗫 🗈.
- 🗫 🛦 / 🔻.

SERNABY NOAE

(Select Standby Mode Display):

○ 🗫 🗗.

(Base Unit number), H5 NO (Handset Number), CLOCh (Clock) or OFF (Off).

(>>▶.

! Time will only be displayed if the clock has been set (see "Base Unit Settings").

FULL UOSE

(Select Talk Mode Display):

- ∁≫▶
- Description of Cally or PHONE NO (Phone Number).
 - (₃>**•**.

CALL OPE

(Call Options):

- **│** ≫ 🕑.
- 🗫 🛦 / 🛡.

CALL BAC

(Set Call Prohibition ON/OFF):

This allows you to make emergency and intercom calls only.

- 🗫 🗈.
- Enter handset PIN (4 digits).
 If the PIN is incorrect an error tone sounds
- Select Off (On) or OFF (Off).

If On is selected, is displayed.

AILECF UO

(Enter a Direct Call Number):

After a Direct Call phone number has been entered and Direct Call set to ON, you can call the Direct Call number **only**, by pressing . Incoming calls are accepted.

- **(**>>**▶**.
- Enter phone number.
 - **⟨≫**■.
- to save the entered number.
 - (Off).
 - (3>) D.

If OΠ is selected, ♣ is displayed.

Before programming, please follow steps 1 to 4 of 'Handset Settings'.

SEL GILECF

(Set Direct Call ON/OFF):

(Off).

(>>**(**≥).

If ON is selected, \(\bigcap \) is displayed.

OEHEC OPE

(Other Options):

- **∑≫▶**.
- o Ç≫**A**/**T**.

HSP IN CHRNGE

(Change Handset PIN):

You can change the 4 digit password for the handset. The factory preset is 0000.

- (>>)
- O Enter current handset PIN (4 digits).
- O Enter new PIN (4 digits). (The new PIN does not display).
- O **Re-enter the new PIN.** (If the PIN is entered incorrectly, an error tone sounds and display returns to *NEB PIN*..........

! Once you have programmed the password, you cannot confirm it. We recommend you write down the password. If you forget it, please consult your nearest Panasonic Service Centre.

AUEO EALH

(Set Auto Talk ON/OFF):

If you set Auto Talk to ON, you can answer the phone by lifting the handset off the base unit.

(₃>**▶**.

○ I / To select ON (On) or OFF (Off).

(35) **(**3.

PUFFELA FALE

(Set Battery Type Ni-MH / Ni-Cd):

Select the type of battery installed. If the battery type selected is not the same as the type of battery installed, the battery level icons will not be correct.

- o (≫D.
- ♠ / ▼ to select N I-NH (Ni-MH) or N I-Cd (Ni-Cd).
 - **(**≫**)**.

<u>reg iserae ion</u>

(Registration):*

- \$>>>.
- (ÀA/V.

LECISFEL H2

(Registering a Handset to a Base Unit)*

CRNCEL BRSE

(Cancelling a Base Unit)*

SELECŁ bS

(Select Base Unit)*

*For information on registering handset(s), cancelling and selecting base unit(s), please refer to 'For Optional Multi-Unit Users'.

reset HS

(Reset the Handset Settings):

You can reset all of the handset settings to their initial factory settings (see 'Handset Initial Settings').

- (>>►)
- O Enter handset PIN (4 digits).
 - If PIN is correct, \(\int 0 \) is displayed.
- ✓ 🎾 / 🕏 to select YE5 (Yes).

CLERFES is displayed and display returns to settings menu.

Panasonic

A basic guide to operations & features.

Pull out this Quick Guide for easy reference

Quick Guide &

Useful **I**nformation

Function	Action
Switch handset on / off	> 7 until a confirmation tone sounds.
Answer a call	(D)
Make a call	Dial the number and 🔊 🦜 .
Hang up	♠★.
Turn Key Lock on/off	⇒ and hold for more than 2 seconds.
Redial last number	\$\hat{\partial}\$,\$\infty\$.
Store a number	>=. >> enter number, >>=.
Dial a stored number	> ♥ to select a number, > ↑.
Dial from the Redial List	> ○ . > △/▼ to select a number, > > .
Adjust Receiver volume	>▲/▼ during a call.
Call another handset	> NT then the handset number.
Transfer a call	Solution enter the handset number, So.
Three way call	Solution enter the handset number, Solution 3.
Dial from the Caller ID List	SA/▼ to select a number, SA.

Your Guide to the Display

Note: The LCD display of the handset can display up to 7 segments and each character will be displayed as shown in the following table. Some characters will be displayed in a different way; for example, the character M is displayed Π . This is not a defect of the handset display, it is simply the representation of the characters used in this kind of display.

Character	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S
Display	R	Ь	Ε	Ь	Ε	F	G	Н	1	J	Ь	L	П	П	0	Р	9	Γ	5
Character	Т	U	٧	W	X	Υ	Z	1	2	3	4	5	6	7	8	9	*	0	#
Display	Ŀ	U	U	R	Н	y	2	1	2	3	Ч	5	Б	7	8	9	4	0	Ξ

Display Message

Display Meaning

RLRFN RLL CLERF *RULO* RUEO ERLH **BRSE** PWFFELA FOR bREEEFY EYPE65 NO 65 P IN CALL BAT CALL OPE CALL BAILING CRNCEL BASE $CLER\Gamma$ CLERTEd CLOChA ILECF UO & ISPLAY OPE Ed It EAIF CULT UO

EHE FINGER
HS NO
HS PIN
HS PIN CHRNGE
HOE KEY FEG
INPUE COJE
INE FINGER
KEY EONE
NENOFY FULL
NEU SPEEJ
NO

Alarm All Clear Automatic Automatic Talk Base Battery Low Battery Type Base Number Base Unit Pin Call Bar Call Option Call Waiting Cancel Base Clear Cleared Clock Direct Number Display Option Edit

Edit a Call no.

External Ringer
Handset Number
Handset PIN
Change Handset PIN
Register Hot Key
Input Code
Internal Ringer
Key Tone
Memory Full
New Speed
New PIN
No

Display Message

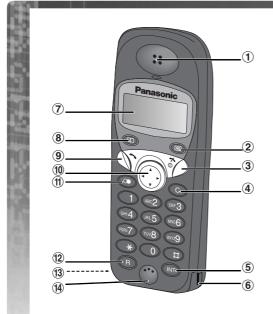
Display Meaning

п І- пн ΠΟ ΙΕΕΠ OFF OL8 PIN ОΠ ONCE OLHET OPL OUL OF REER PRG ING PHONE NO PT IUREE *CRNGE ALACN LEGISFEL H2* **LEC ISFLUS** r inger ringer off r inger ope ringer uol LEBEUF AUITA ΓESEŁ HS SRUE SRUEd SRUE SPEEd SELECE bS SEŁ ALAFN SEL dIFECL SEL LINE SELLING 65 SELLING HS SERNABY NOAE FULL UOSE ERLH EINE EINE ALAFN EONE OPE UET IFY UOL

YES

Ni-Cd Ni-MH No Item Off Old Pin On Once Other Option Out of Area Paging Phone Number Private Range Alarm Register Handset Registration Ringer Ringer Off Ringer Option Ringer Volume Repeat Daily Reset Handset Save Saved Save Speed Select Base Set Alarm Set Direct Set Time Setting Base Setting Handset Standby Mode Talk Mode Talk Time Time Alarm Tone Option Verify Volume Yes

Location of Controls



Handset controls

- 1 Receiver
- ② Function/OK Button
- 3 Talk Off/Power Button
- 4 Cancel Button
- (5) Intercom Button
- **6** Charge Contact
- 7 Display
- (8) Speed Dial Button
- 9 Talk Button
- 10 Navigator Key
- ① Redial/Pause Button
- (2) Recall Button
- (3) Charge Contact
- (4) Microphone

Base unit controls



Page button

Handset Display

Icon	Displays	Flashes
Y	Within range of a base unit	Out of range
•1))	Intercom mode	Paging or another unit pages the
		handset
	Making or answering calls	Outside call is received
	Less than 30% battery capacity	- Recharge battery
-	30% to 50% battery capacity	
100	50% to 100% battery capacity	• Fully charged
	In Direct Call mode	
*	In Call Prohibition mode	
→>	In setting mode	
×	Ringer tone temporarily OFF	
\vdash	Key Lock ON	
\Rightarrow	Speed Dial List/Mode	

You can change the base unit settings using a handset near the base unit. Before proceeding with any of the base settings listed in this chapter, the following procedure must initially be carried out:

- From the standby mode, .
 - ► to select **5ELL ING b5** (Setting Base).

 \emph{INPUL} COdE is displayed. From this display, follow the instructions after each heading.

Please note: Where 'Enter PIN' is stated in this chapter, it refers to the 4 digit Base Unit PIN. (The factory setting is 0000).

To exit the menu at any time, 🤝 🛪.

Ringer Mode

To select all handsets to ring

- \bigcirc
- Enter PIN. (₃>(1).

To select specific handset(s) to ring

- (**ॐ**(1).
- Enter PIN.
- √S> (48°2)
- to select handset(s). The selected handsets will be flash-
- (>>E).

To select specific handset(s) then all handsets to ring

The specific handset(s) will ring for a selected number of rings. If not answered, all handsets will ring.

- (3>(1).
- O Enter PIN.
- **(₃>∞=3**).
 - > 1 6 to select handset(s) to ring.
- to select number of 0 rings.
 - (≫.▶

Select Base Unit Ringer Volume

- ⇔©2 twice.
 - > 0 (Off) or 1 ■3 to select volume.
 - (₃>.▶

Select Dialling mode (Tone/Pulse)

You can change the dialling mode to tone or pulse depending upon your network service. If you have a touch tone service, select tone. If you have rotary or pulse service, select pulse.

- (₃>**□=3**).
- Enter PIN.
- Ѿ).
- 1) for Tone
- OR
- ⇔ for Pulse

Before programming, please follow steps 1 to 3 of 'Base Unit Settings'.

Select the Earth or Flash Mode

An earth relay can be installed as an option depending on your PBX requirements (see 'Additional Features'). Please consult your nearest Panasonic Service centre for installation. On installation, you can select flash or earth mode to suit your PBX or network provider.

√≫™3.

Enter PIN.

Second then conditions of the conditions of the

then for flash mode.

If flash is selected and flash times are required:

for flash 1 (100 msec) or flash 2 (600 msec) or flash 3 (300 msec) for flash 3 (300 msec)

Select Pause Timing

You can set the pause timing to 3 or 5 seconds, depending on your PBX requirements (see "Dialling Pause").

(₃>∞3).

O Enter PIN.

(₃> **○** ■3).

to select 3 seconds

OR

to select 5 seconds.

Set the 4 - Digit Base Unit PIN

You can change the 4 - digit password for the base unit. The factory preset is 0000.

(3∞a5).

Enter PIN.

Enter New PIN (4 digits) twice.

If entered incorrectly, an error tone sounds.

If entered correctly, a confirmation tone sounds.

! Once you have programmed the password, you cannot confirm it. We recommend you write down the password. If you forget it, please consult your nearest Panasonic Service Centre.

Set Call Restriction

You can restrict selected handset(s) from dialling selected phone numbers. You can assign up to 6 call restriction numbers (up to 8 digits).

<u>√</u>>∞6.

O Enter PIN.

All registered handset numbers are displayed.

to select hand-set(s) to restrict.

The selected handset(s) will flash.

⟨≫▶.

Enter a restriction number (max. 8 digits).

(If you misdial () C).

⇒ to confirm restriction number.

○ On completion, 🔊 🗏.

! If you dial a restricted number, the call does not connect and restricted number flashes.

Cancel Call Restricted Handset(s)

○ (**>> (•••6**).

Enter PIN.

to cancel.

The selected handset(s) will stop flashing.

) (₃>**▶**.

O > to return to the standby mode.

Before programming, please follow steps 1 to 3 of 'Base Unit Settings'.

Cancel Call Restricted Numbers



Enter PIN.

⟨≫▶.

to cancel number.

₽

 $\ \ \, \ \ \, \ \ \,$ to return to the standby mode.

Set the Clock



Enter a new time (4 digits) (24 hour time) (() 0 - ().

Ѿ⋑.

! After a mains power failure the clock needs to be reset.

Reset the Base Unit

You can reset all of the base unit settings to their initial factory settings. (see "Base Unit Initial Settings").

⟨₃⊳(0).

Enter PIN.



! If the base unit is reset, the Caller ID list will clear.



Handset Initial Settings

To reset handset to initial settings refer to "Handset Settings".

To reset handset to initial settings refer to Trandset Settings.						
Function	Initial Setting					
Time Alarm Mode	OFF					
Alarm Time	Clear					
Handset Ringer Volume	3					
Handset External Ringer Pattern	1					
Handset Internal Ringer Pattern	1					
Handset Paging Tone Pattern	1					
Handset Alarm Tone Pattern	1					
Key Tone	ON					
Call Waiting Tone	ON					
Range Warning Alarm	OFF					
Battery Low Alarm	ON					
Standby Mode Display	Base Unit Number					
Talk Mode Display	Length of the Call					
Call Prohibition Mode	OFF					
Direct Call Mode	OFF					
Direct Call Number	Clear					
4 Digit Handset PIN	0000					
Auto Talk	OFF					
Base Unit Access	Automatic Base Unit Access					
Handset Receiver Volume	2					
Redial Memory	All Clear					

Base Unit Initial Settings

To reset base unit to initial settings refer to "Base Unit Settings".

Initial Setting

Function	
Ringer Mode Number of Rings Dialling Mode Earth/Flash Flash Timing Pause Timing Call Restricted Handset(s) Call Restriction Number(s) Base Unit PIN Base Unit Ringer Volume	All Handsets 3 Tone Flash 600m seconds 3 seconds All Clear All Clear 0000 Medium

Operating Additional Handsets

Additional KX-A120EX handsets are available to purchase separately. Up to 6 handsets can be registered to a single base unit. Using additional handsets allows you to have an intercom call while simultaneously conducting a call to an outside line.

Operating Additional Base Units

You can register and operate your handset with up to 4 base units. Each base unit forms 1 radio cell. If the indi-

vidual bases are linked to the same telephone line then you can extend the operating range of the system





Radio Cell Eg.

Additional handsets (KX-A120EX) 2 base units.

base selection, then in standby mode the handset will automatically swap to the second base if the range on the first registered with base is exceeded.

It is not possible to transfer calls between bases (only between handsets linked to the same base unit).



NOTE: Calls are disconnected when the handset moves from one radio cell to another.

Registering a Handset to a Base Unit

The handset supplied with the base unit is already registered. If an optional handset is purchased, it must be registered as follows.

! Charge the optional handset batteries for 15 hours before initial use.

From the Standby mode, 🗫 🗈.

> ▲ / ▼ to select SEŁŁ ING H5 (Setting Handset).

(₃>.▶.

✓ to select:

reg iserre ion

(Registration):

(≫▶.

register Hs

(Register Handset):

0

and hold on the base unit for 10 seconds. A base registration tone sounds

> ! Handset must be registered within 1 minute. If over 1 minute >, then restart registration.

○ S A / T to select base 1-4 (base 1-4).

Enter base unit PIN (4 digits factory preset is 0000).

(₃>**▶**.

- When handset and base unit connect a confirmation tone sounds.
- If handset registration is not successful within 5 minutes, an error tone sounds.

For Optional Multi-Unit Users

Cancelling a Handset

Each handset can cancel itself or another handset.

- From the standby mode, 🔊 🗈 .
- S>A / T to select SELL ING b5.
- o (≫**•**.
- o when INPUL COdE is displayed.
- O Enter base unit PIN (4 digits).
- o to select handset to cancel.
- 🗫 🗐 .

Cancelling a Base Unit

Follow steps 1 to 5 of "Registering a Handset to a Base Unit", then:

○ ► I to select:

CRNCEL BASE

(Cancel a Base Unit)

You can cancel any base unit that your handset is registered to.

- 🌄 🕒.
- O Enter handset PIN (4 digits).
- SA / To select base unit(s) to cancel.
- S to set selection.

Selected base number(s) flash(es).

- 🗫 🖪
- SA / To select YE5 (Yes) or NO (No).

If selection was ${\it YES}, {\it CLERFEd}$ is displayed briefly.

Selecting a Base Unit

When RUEO (Automatic Base Unit Access) is selected, if you move outside of the radio range of the current base unit the handset automatically searches for other registered base units.

When a specified base unit is selected, the handset will access that base unit only.

Follow steps 1 to 3 of "Registering a Handset to a Base Unit", then:

○ 🗫 🛦 / 🛡 to select:

SELECE bs

(Select Base Unit):

(≫).

0

- ♠ / ▼ to select RULO or a specific base unit 1-4 (only registered base unit numbers are displayed).
- 🗫 to confirm selection.

Calls (both incoming and outgoing), can be conducted only via the selected base unit, even if the radio cells overlap with neighbouring base units.

Intercom Between Handsets

You can use your handsets as a 2-way intercom. For example, when Handset 1 calls Handset 2:

Handset 1-

- O (>) NT. 1) blinks.
- (desired handset number).

Handset 2 (ringing) -

O 🔊 to answer.

Handset 1 and 2 -

○ 🤝 🦈 to end the call.

! Intercom calls can be conducted within the radio cell of the current base unit, but not with units in neighbouring radio areas.

Transferring Calls to Another Handset

The intercom can be used during a call to transfer an external call between handsets that are registered to the same base unit.

For example, when handset 1 transfers a call to Handset 2:

Handset 1 -

- O During the call, (>NT).
 - •1) is displayed and the call is put on hold.
- (desired handset number).

A ring back tone is heard until Handset 2 answers.*

Handset 2 (ringing) -

O Some or ONT to answer.

Handset 1 & Handset 2 -

O (Have conversation).

Handset 1 -

- OP to release the call for transfer
 - Solution to connect to external caller again.

To transfer the call directly, without speaking to the other handset:

Handset 1 -

○ 🗫 🫪 at *.

Handset 2 -

(in the second

The transfer is complete.

If the transferred call is not answered within 30 seconds, Handset 1 will ring again. to answer the call.

Conference Calls

During a conversation in an external call, you can make an intercom call to another handset and then combine the calls together to establish a conference call.:

Handset 1 -

During the call, () then () (desired handset number).

The call is put on hold. If there is no answer , $\mbox{\ensuremath{\triangleright}}\mbox{\ensuremath{\mathbb{N}}}\mbox{\ensuremath{\triangleright}}$ to return to the caller.

Handset 2 (ringing) -

or ND to answer.

Handset 1 -

O to establish the conference call.

Handset 1 or Handset 2 -

to end the conference call.

Before Requesting Help

If you experience any problems with the normal use of your apparatus, you should unplug it from the telephone outlet and connect a known working telephone in its place. If the known working telephone still has problems, then please contact the customer service department of your Network provider. If it operates correctly, then the problem is likely to be a fault in your apparatus. In this case, contact your supplier for advice. Your Network provider may charge you if they attend a service call that is not due to apparatus supplied by them.

NO LCD display in handset. Handset will not turn on. Batteries not inserted. Batteries not charged. Batteries not charged. Batteries not charged. Batteries charge icon not counting up. Base not powered up. Base not powered up. Bandset out of range of base. Handset busy tone heard when is pressed. Wait for other user to compete call. No dial tone. Cannot dial out. Cannot dial out. Cannot dial out. Base niger turned off. Base unit will not ring. Base unit will not ring. Base unit will not ring. Caller has withheld info. Batteries not inserted. Batteries not inserted. Insert x 2 rechargeable batteries supplied (pg. 3). Insert x 2 rechargeable batteries supplied (pg. 3). Insert x 2 rechargeable batteries supplied (pg. 3). Place handset in base and connect AC adaptor to base and AC outlet full charge period 15 hrs). Clean charge / battery contact and retry charge. Connect AC adaptor to base unit and AC outlet. Register handset tobase. Move handset closer to base. Move handset closer to base. Wait for other user to complete call. Insert telephone cord to network. Turn key pad lock OFF. Set ringer to one of 3 volume levels (see "Base Unit Settings"). Set ringer to one of 6 volume levels (see "Handset Settings"). Redial manually. Caller ID number displayed. Batteries not inserted. Insert supplied (pg. 3). Move handset closer to base. Move handset closer to obase. Move handset closer to obase. Move handset closer to obase. Wait for other user to complete call. Turn kety pad lock OFF. Set ringer to one of 3 volume levels (see "Base Unit Settings"). Set ringer to one of 6 volume levels (see "Handset Settings"). Redial manually. Caller ID service must be arranged with Network provider.	Problem	Possible cause	Solution
Batteries not inserted. **Batteries not charged.** **Place handset in base and connect AC adaptor to base and AC outlet (full charge period 15 hrs).** **Clean charge / battery contact and retry charge.** **Connect AC adaptor to base unit and AC outlet.** **Register handset to base.** **Move handset closer to base.** **Turn feature off.** **Remove number from call restricted list.** **Turn key pad lock OFF.** **Set ringer to one of 3 volume levels (see "Base Unit Settings").* **Set ringer to one of 6 volume levels (see "Handset Settings").* **Set ringer to one of 6 volume levels (see "Handset Settings").* **Redial manually.* **Caller ID number displayed.** **Caller has withheld info.** **Caller ID service must be arranged with Network provider.**	The state of the s	THE RESIDENCE OF THE PARTY OF T	
on. Batteries not charged. Batteries charge icon not counting up. Dirty charge contact. Base not powered up. Base not powered up. Base not powered up. Handset out of range of base. Handset busy tone heard when is pressed. Handset out of range of base. Another handset in use. Telephone line not connected. Cannot dial out. Cannot dial out. Cannot dial out. Base ringer turned off. Base unit will not ring. Base unit will not ring. Caller handset out of parge of base. Base unit will not ring. Caller landset out of range of base. Privaticular dialled number is restricted. Service not supplied. Caller landset in base and AC outlet (full charge period 15 hrs). Clean charge / battery contact and retry charge. Connect AC adaptor to base unit and AC outlet. Register handset to base. Move handset closer to base. Wait for other user to complete call. Insert telephone cord to network. Turn feature off. Remove number from call restricted list. Turn key pad lock OFF. Set ringer to one of 3 volume levels (see "Base Unit Settings"). Set ringer to one of 6 volume levels (see "Handset Settings"). Set ringer to one of 6 volume levels (see "Handset Settings"). Set ringer to one of 6 volume levels (see "Handset Settings"). Caller ID number displayed.	handset.	• Handset not turned on.	• Turn on power (pg. 4).
• Batteries not charged. • Place handset in base and connect AC adaptor to base and AC outlet (full charge period 15 hrs). • Base not powered up. • Clean charge / battery contact and retry charge. • Connect AC adaptor to base unit and AC outlet. • Register handset to base. • Move handset closer to base. • Wait for other user to complete call. • Insert telephone cord to network. • Call prohibition mode set. • Particular dialled number is restricted. • Key lock mode ON. • Base unit will not ring. • Ringer switched off. • Set ringer to one of 3 volume levels (see "Base Unit Settings"). • Redial manually. • Caller ID service must be arranged with Network provider.		• Batteries not inserted.	
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Handset busy tone heard when is pressed. • Another handset in use. • Telephone line not connected. Cannot dial out. • Call prohibition mode set. • Particular dialled number is restricted. • Key lock mode ON. Base unit will not ring. • Ringer switched off. • Ringer switched off. • Remove number from call restricted list. • Turn key pad lock OFF. • Set ringer to one of 3 volume levels (see "Base Unit Settings"). • Set ringer to one of 6 volume levels (see "Handset Settings"). Last number redial does not work. No Caller ID number displayed. • Caller has withheld info. • Caller ID service must be arranged with Network provider.		_	
Pressed. • Another handset in use. • Wait for other user to complete call. • Telephone line not connected. • Call prohibition mode set. • Particular dialled number is restricted. • Key lock mode ON. Base unit will not ring. • Ringer switched off. • Ringer switched off. • Remove number from call restricted list. • Turn key pad lock OFF. • Set ringer to one of 3 volume levels (see "Base Unit Settings"). • Set ringer to one of 6 volume levels (see "Handset Settings"). Last number redial does not work. No Caller ID number displayed. • Caller has withheld info. • Caller ID service must be arranged with Network provider.		• Handset out of range of	• Move handset closer to
Plete call. No dial tone. • Telephone line not connected. • Call prohibition mode set. • Particular dialled number is restricted. • Key lock mode ON. Base unit will not ring. • Ringer switched off. • Ringer switched off. • Remove number from call restricted list. • Turn key pad lock OFF. • Set ringer to one of 3 volume levels (see "Base Unit Settings"). • Set ringer to one of 6 volume levels (see "Handset Settings"). Last number redial does not work. No Caller ID number displayed. • Caller has withheld info. • Caller ID service must be arranged with Network provider.		Subo.	Sasc.
nected. Cannot dial out. Particular dialled number is restricted. • Key lock mode ON. Base unit will not ring. Handset will not ring. • Ringer switched off. • Ringer switched off. • Remove number from call restricted list. • Turn key pad lock OFF. • Set ringer to one of 3 volume levels (see "Base Unit Settings"). • Set ringer to one of 6 volume levels (see "Handset Settings"). Last number redial does not work. No Caller ID number displayed. • Caller has withheld info. • Caller ID service must be arranged with Network provider.	r	• Another handset in use.	plete call.
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is restricted. • Key lock mode ON. • Base unit will not ring. • Base ringer turned off. • Set ringer to one of 3 volume levels (see "Base Unit Settings"). Handset will not ring. • Ringer switched off. • Set ringer to one of 6 volume levels (see "Handset Settings"). Last number redial does not work. No Caller ID number displayed. • Caller has withheld info. • Caller ID service must be arranged with Network provider.	Cannot dial out.		• Turn feature off.
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ring. Handset will not ring. Last number redial does not work. No Caller ID number displayed. **Service not supplied.** **Caller has withheld info.** **ume levels (see "Base Unit Settings"). **Set ringer to one of 6 volume levels (see "Handset Settings"). **Redial manually.* **Caller ID service must be arranged with Network provider.			
ring. Last number redial does not work. No Caller ID number displayed. • Number exceeded 24 digits. • Redial manually. • Redial manually. • Caller ID service must be arranged with Network provider.		Base ringer turned off.	ume levels (see "Base Unit
Last number redial does not work. No Caller ID number displayed. • Number exceeded 24 digits. • Redial manually. • Caller ID service must be arranged with Network provider.		• Ringer switched off.	ume levels (see "Handset
does not work. No Caller ID number displayed. • Caller has withheld info. • Caller ID service must be arranged with Network provider.	Last number redial	• Number exceeded 24 dig-	
displayed. • Caller has withheld info. arranged with Network provider.	does not work.	its.	
provider.			
• Battery low. • Recharge batteries.		• Caller has withheld info.	
	icon flashes.		• Recharge batteries.
Transferring calls • Recall time incompatible. • Change handset or PBX set-	Transferring calls	• Recall time incompatible.	
on PBX not possible. ting (see "Base Unit	on PBX not possible.	I	
Settings").		20	Settings").

2 to 10	Problem	Possible cause	Solution
一年 日本	Cannot register handset to base.	 Max. number of bases already registered to handset. Max. number of handsets already registered to base unit. Wrong PIN number entered (Default 0000). Electrical noise in local area. 	 Delete unused base registrations from handset. Delete unused handset registrations from base. If PIN number is lost, contact your Panasonic Customer Care Helpline. Move base / handset away from sources of electrical noise (e.g TV, radio).

Technical Information

Spe	cific	ations	•
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Standard: DECT=(\underline{D} igital \underline{E} nhanced \underline{C} ordless

Telecommunications).

GAP=(Generic Access Profile).

Number of channels: 120 Duplex Channels. Frequency range: 1.88 GHz to 1.9 GHz.

Duplex procedure: TDMA (Time Division Multiple Access).

Channel spacing: 1728 kHz.

Bit rate: 1152 kbit/s.

Modulation: GFSK.

RF Transmission Power: approx. 250 mW. Voice coding: ADPCM32kbit/s.

Operating range: Up to 300 m outdoors (line of sight), up to

50 m indoors.

Power source: AC Adaptor 220-240 V AC ~50/60Hz.

Power consumption, base unit: 5 VA.

Operating conditions: 5° - 40°C, 20 - 80% relative air humidity (dry)
Dimensions, Base Unit: About (103mm x 122mm x 60mm) x 180gr
Dimensions, Handset: About (134mm x 46mm x 30mm) x 85gr

(without batteries)

Telephone line cord length:

AC adaptor cord length:

About 2.3m

About 1.9m

- Specifications are subject to change.
- The illustrations used in this manual may differ slightly from the original device.

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For your future reference

Serial No. Date of purchase
(found on the bottom of the unit)

Name and address of dealer

Technical specifications are subject to change.

Kyushu Matsushita Electric (U.K.) Ltd.

Pencarn Way, Duffryn, Newport, South Wales, NP10 8YE, United Kingdom

Printed in Thailand

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